

DECLARATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or the below named inventors are the original, first and joint inventors (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **METHOD AND APPARATUS FOR PROBABILISTICALLY CLASSIFYING TISSUE IN VITRO AND IN VIVO USING FLUORESCENCE SPECTROSCOPY**, the Specification of which:

- ☐ is attached hereto.  
☒ was filed on **October 20, 1999** as Application Serial No. **09/421,965**.

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(Application Serial No.)	(Filing Date)	(Status)
08/403,446	March 14, 1995	Issued as U.S. Pat. No. 5,697,373
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08/693,471	August 2, 1996	Pending
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Inventor's Full Name:	Rebecca		Richards-Kortum
Inventor's Signature:	<i>Rebecca Richards</i>		
Country of Citizenship:	USA	Date:	1-12-00
Residence Address: (street, number, city, state, and/or country)	6410 Walebridge Lane Austin, TX 78712		
Post Office Address: (if different from above)			

Inventor's Full Name:	Nirmala		Ramanujam
Inventor's Signature:			
Country of Citizenship:	Malaysia	Date:	
Residence Address: (street, number, city, state, and/or country)	224 W. Rittenhouse Sq., #2302 Philadelphia, PA 19103		
Post Office Address: (if different from above)			

<b>Inventor's Full Name:</b>	Anita		Mahadevan-Jansen
<b>Inventor's Signature:</b>			
<b>Country of Citizenship:</b>	India	<b>Date:</b>	
<b>Residence Address:</b> (street, number, city, state, and/or country)	7517 Hallows Drive Nashville, TN 37221		
<b>Post Office Address:</b> (if different from above)			

<b>Inventor's Full Name:</b>	Michele	Follen	Mitchell
<b>Inventor's Signature:</b>			
<b>Country of Citizenship:</b>	USA	<b>Date:</b>	
<b>Residence Address:</b> (street, number, city, state, and/or country)	907 Kirby Houston, TX 77017		
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<b>Inventor's Full Name:</b>	Urs		Utzinger
<b>Inventor's Signature:</b>			
<b>Country of Citizenship:</b>	Switzerland	<b>Date:</b>	
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Inventor's Full Name:	Rebecca		Richards-Kortum
Inventor's Signature:			
Country of Citizenship:	USA	Date:	
Residence Address: (street, number, city, state, and/or country)	6410 Walebridge Lane Austin, TX 78712		
Post Office Address: (if different from above)			

Inventor's Full Name:	Nirmala		Ramanujam
Inventor's Signature:	<i>Nirmala Ramanujam</i>		
Country of Citizenship:	Malaysia	Date:	1/10/02
Residence Address: (street, number, city, state, and/or country)	224 W. Rittenhouse Sq., #2302 Philadelphia, PA 19103		
Post Office Address: (if different from above)			

<b>Inventor's Full Name:</b>	Anita		Mahadevan-Jansen
<b>Inventor's Signature:</b>			
<b>Country of Citizenship:</b>	India	<b>Date:</b>	
<b>Residence Address:</b> (street, number, city, state, and/or country)	7517 Hallows Drive Nashville, TN 37221		
<b>Post Office Address:</b> (if different from above)			

<b>Inventor's Full Name:</b>	Michele	Follen	Mitchell
<b>Inventor's Signature:</b>			
<b>Country of Citizenship:</b>	USA	<b>Date:</b>	
<b>Residence Address:</b> (street, number, city, state, and/or country)	907 Kirby Houston, TX 77017		
<b>Post Office Address:</b> (if different from above)			

<b>Inventor's Full Name:</b>	Urs		Utzingen
<b>Inventor's Signature:</b>			
<b>Country of Citizenship:</b>	Switzerland	<b>Date:</b>	
<b>Residence Address:</b> (street, number, city, state, and/or country)	3410A South Oak Drive Austin, TX 78704		
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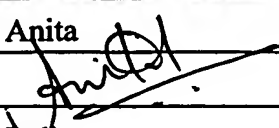
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Inventor's Full Name:	Rebecca		Richards-Kortum
Inventor's Signature:			
Country of Citizenship:	USA	Date:	
Residence Address: (street, number, city, state, and/or country)	6410 Walebridge Lane Austin, TX 78712		
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Inventor's Full Name:	Nirmala		Ramanujam
Inventor's Signature:			
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Residence Address: (street, number, city, state, and/or country)	224 W. Rittenhouse Sq., #2302 Philadelphia, PA 19103		
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Inventor's Full Name:	Anita		Mahadevan-Jansen
Inventor's Signature:			
Country of Citizenship:	India	Date:	3/6/00
Residence Address: (street, number, city, state, and/or country)	7517 Hallows Drive Nashville, TN 37221		
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mk

Inventor's Full Name:	Michele	<del>Follen</del>	<del>Mitchell</del> <del>Follen</del>
Inventor's Signature:	<i>Michele Follen MD</i>		
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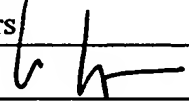
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**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:  
Rebecca Richards-Kortum et al.

Serial No.: 09/421,965

Filed: 10/20/99

For: METHOD AND APPARATUS FOR  
PROBABILISTICALLY CLASSIFYING  
TISSUE IN VITRO AND IN VIVO USING  
FLUORESCENCE SPECTROSCOPY

Group Art Unit: 1642

Examiner: Unknown

Atty. Dkt. No.: TUUT:010/BAM

**ELECTION UNDER 37 C.F.R. §§ 3.71 AND 3.73**  
**AND POWER OF ATTORNEY**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The undersigned, being Assignee of record of the entire interest in the above-identified application by virtue of an assignment recorded in the United States Patent and Trademark Office as set forth below, hereby elects, under 37 C.F.R. § 3.71, to prosecute the application to the exclusion of the inventors.

The Assignee hereby revokes any previous Powers of Attorney and appoints:

Louis T. Pirkey, Reg. No. 22,393; Richard J. Groos, Reg. No. 32,231; David L. Parker, Reg. No. 32,165; William G. Barber, Reg. No. 33,154; David D. Bahler, Reg. No. 30,932; Michael S. Metteauer, Reg. No. 34,875; Mark B. Wilson, Reg. No. 37,259; Steven L. Highlander, Reg. No. 37,642; Mark A. Thurmon, Reg. No. 39,858; Teresa J. Bowles, Reg. No. 40,526; Stephen P. Meleen, Reg. No. 40,724; Nicole Stafford, Reg. No. 43,929; Richard A. Nakashima, Reg. No. 42,023; Robert Hanson, Reg. No. 42,628; Gina N. Shishima, Reg. No. 45,104; Michael C. Barrett, Reg. No. 44,523; Mark T. Garrett, Reg. No. 44,699; Jonathan D. Hurt, Reg. No. 44,790; Stephen M. Hash, P-45,490; Debra L. Dennett, P-46,370; Karl Normington, P-45,586; Michael O. Scheinberg, Reg. No. 36,919; J. Scott Denko, Reg. No. 37,606; Erik R. Nordstrom, Reg. No. 39,792; Patrick Stelitano, Reg. No. 42,169



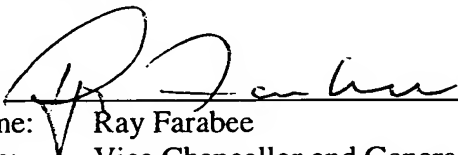
each an attorney or agent of the firm of FULBRIGHT & JAWORSKI, L.L.P., as its attorney or agent for so long as they remain with such firm, with full power of substitution and revocation, to prosecute the application, to make alterations and amendments therein, to transact all business in the Patent and Trademark Office in connection therewith, and to receive any Letters Patent, and for one year after issuance of such Letters Patent to file any request for a certificate of correction that may be deemed appropriate.

Pursuant to 37 C.F.R. § 3.73, the undersigned has reviewed the evidentiary documents, specifically the Assignment to Board of Regents, The University of Texas System, referenced below, and certifies that to the best of my knowledge and belief, title remains in the name of the Assignee.

Please direct all communications as follows:

Michael C. Barrett  
FULBRIGHT & JAWORSKI, L.L.P.  
600 Congress Avenue, Suite 2400  
Austin, Texas 78701  
(512) 418-3000

ASSIGNEE:  
BOARD OF REGENTS, THE UNIVERSITY  
OF TEXAS SYSTEM

By:   
Name: Ray Farabee  
Title: Vice Chancellor and General  
Counsel

Date: March 10, 2000

ASSIGNMENT:

- ☒ Concurrently filed  
☐ Previously recorded

Date:

Reel:

Frames:



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JANUARY 19, 2001

PTAS

FULBRIGHT & JAWORSKI LLP  
MICHAEL C. BARRETT  
600 CONGRESS AVENUE  
SUITE 2400  
AUSTIN, TEXAS 78701



\*101568900A\*

## CORRECTED NOTICE

### UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/21/2000

REEL/FRAME: 010992/0283  
NUMBER OF PAGES: 21

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

RICHARDS-KORTUM, REBECCA

DOC DATE: 01/12/2000

ASSIGNOR:

RAMANUJAM, NIRMALA

DOC DATE: 01/10/2000

ASSIGNOR:

MAHADEVAN-JANSEN, ANITA

DOC DATE: 03/06/2000

ASSIGNOR:

FOLLEN, MICHELE

DOC DATE: 01/05/2000

ASSIGNOR:

UTZINGER, URS

DOC DATE: 01/04/2000

ASSIGNEE:

BOARD OF REGENTS, THE UNIVERSITY  
OF TEXAS SYSTEM  
201 WEST 7TH STREET  
AUSTIN, TEXAS 78701

RECEIVED
Assigned
details noted
FEB 07 2001
THUT:010
AYL/BAM
LM

010992/0283 PAGE 2

SERIAL NUMBER: 09421965  
PATENT NUMBER:

FILING DATE: 10/20/1999  
ISSUE DATE:

PEARLENE FOSTER, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

01-19-2001

COPY

FORM PTO-1595  
(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)



101568900

U.S. Department of Commerce

Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

<b>1. Name of conveying party(ies)</b> <b>Rebecca Richards-Kortum, Nirmala Ramanujam, Anita Mahadevan-Jansen, Michele Follen, Urs Utzinger</b> Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>2. Name and address of receiving party(ies):</b> Name: <b>Board of Regents, The University of Texas System</b> Internal Address: Street Address: <b>201 West 7th Street</b> City: <b>Austin</b> State: <b>TX</b> Zip: <b>78701</b> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>3. Nature of conveyance:</b> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: <b>1/12/00, 1/10/00, 3/6/00, 1/5/00, 1/4/00</b>			
<b>4. Application number(s) or registration number(s):</b> If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s): <b>09/421,965</b> B. Patent No.(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b> Name: <b>Michael C. Barrett</b> <b>FULBRIGHT &amp; JAWORSKI L.L.P.</b> <b>600 Congress Avenue, Suite 2400</b> City: <b>Austin</b> State: <b>Texas</b> Zip: <b>78701</b>		<b>6. Total number of applications and patents involved: <u>1</u></b> <b>7. Total fee (37 C.F.R. 3.41) ————— \$ <u>40.00</u></b> <input checked="" type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account if check insufficient or inadvertently omitted <b>8. Deposit account number: <u>50-1212/10010837/MCB</u></b> (Attach duplicate copy of this page if paying by deposit account)	
DO NOT USE THIS SPACE			
<b>9. Statement and signature.</b> <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> <div style="display: flex; justify-content: space-between;"> <div> <b>Michael C. Barrett</b>            Name of Person Signing, Reg. No. 44,523         </div> <div> <b>Michael C. Barrett</b>            Signature         </div> <div> <b>7-21-00</b>            Date         </div> </div> Total number of pages including cover sheet, attachments and documents: <b>21</b>			

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks

Box Assignment

Washington, D.C. 20231

08/16/2000 NTHA11 00000041 09421965

01 FC:581

40.00 CP

CERTIFICATE OF MAILING  
37 C.F.R. 1.8

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Box Assignments, Commissioner of Patents and Trademarks, Washington, DC 20231, on the date below:

**7-21-00**  
 Date

**Michael C. Barrett**  
 Michael C. Barrett

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
Rebecca Richards-Kortum *et al.*

Serial No.: 09/421,965

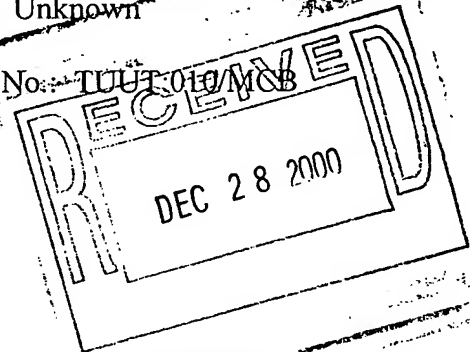
Filed: October 20, 1999

For: METHOD AND APPARATUS FOR  
PROBABILISTICALLY CLASSIFYING  
TISSUE IN VITRO AND IN VIVO USING  
FLUORESCENCE SPECTROSCOPY

Group Art Unit: 1642

Examiner: Unknown

Atty. Dkt. No.: TTUT-019/MCS



**REQUEST FOR CORRECTED NOTICE OF RECORDATION**  
**OF ASSIGNMENT DOCUMENT**

CERTIFICATE OF MAILING  
37 C.F.R. 1.8

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Box Assignment, Commissioner for Patents, Washington, DC 20231, on the date below:

12/20/2000  
Date

Michael C. Barrett  
Michael C. Barrett

Commissioner for Patents  
Box Assignments, CG-4  
1213 Jefferson Davis Highway, Suite 320  
Washington, D.C. 20231

Sir:

A corrected Notice of Recordation of Assignment Document is hereby requested in view of the error which appears in the original. For the convenience of the Patent and Trademark Office, attached is a photocopy of the original Assignment Recordation on which the error has been noted in red, a photocopy of the original Recordation Form Coversheet, and a copy of the original Assignment.

The Assignee name is incorrect. Please delete "BOARDS OF REGENTS" and insert therefor --**BOARD OF REGENTS** --.

Because the error is not due to any error by Applicants, no fee is believed to be due in connection with the filing of this document. However, should any fee under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to this document, the Commissioner is hereby authorized to deduct said fee from Fulbright & Jaworski Deposit Account No. 50-1212/10010837/MCB.

Please date stamp and return the enclosed postcard evidencing receipt of these materials.

Respectfully submitted,

*Michael C. Barrett*

Michael C. Barrett

Reg. No. 44,523

Attorney for Applicants

FULBRIGHT & JAWORSKI L.L.P.  
600 Congress Avenue, Suite 2400  
Austin, Texas 78701  
(512) 474-5201

Date: 12/20/00

COPY

PATENT  
FILE NO. TUUT:010

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to the Board of Regents, the University of Texas System (the "Assignee"), having a place of business at 201 West 7th Street, Austin, Texas 78701, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. 09/421,965 which has been filed on October 20, 1999 and is entitled "METHOD AND APPARATUS FOR PROBABILISTICALLY CLASSIFYING TISSUE IN VITRO AND IN VIVO USING FLUORESCENCE SPECTROSCOPY", such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: Rebecca Richards-Kortum  
Name: Rebecca Richards-Kortum

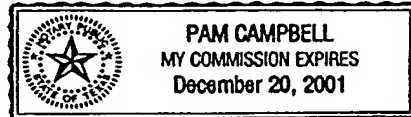
Date: 1-12-00

STATE OF Texas )  
 ) ss.  
COUNTY OF Texas )

BEFORE ME, the undersigned authority, on this 12th day of Jan, 1999/2000, personally appeared Rebecca Richards-Kortum, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

Pam Campbell  
Notary or Consular Officer

[SEAL]



Signature: \_\_\_\_\_  
Name: Nirmala Ramanujam

Date: \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Nirmala Ramanujam, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]



Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: Anita Mahadevan-Jansen

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Anita Mahadevan-Jansen, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: Michele Follen Mitchell

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Michele Follen Mitchell, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_  
Name: Urs Utzinger

Date: \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Urs Utzinger, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

ARNOLD WHITE & DURKEE

750 Bering Drive  
Houston, Texas 77057-2198

One Franklin Square  
1301 K Street, N.W.  
Suite 350 East Tower  
Washington, DC 20005

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to the Board of Regents, the University of Texas System (the "Assignee"), having a place of business at 201 West 7th Street, Austin, Texas 78701, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. 09/421,965 which has been filed on **October 20, 1999** and is entitled "**METHOD AND APPARATUS FOR PROBABILISTICALLY CLASSIFYING TISSUE IN VITRO AND IN VIVO USING FLUORESCENCE SPECTROSCOPY**", such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: \_\_\_\_\_  
Name: Rebecca Richards-Kortum

Date: \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Rebecca Richards-Kortum, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: Nirmala Ramanujam  
Name: Nirmala Ramanujam

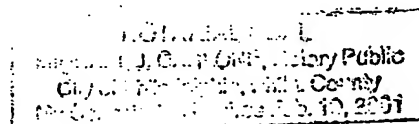
Date: 1/10/2000

STATE OF Pennsylvania )  
 ) ss.  
COUNTY OF Philadelphia )

BEFORE ME, the undersigned authority, on this 10<sup>th</sup> day of January, 1999/2000, personally appeared Nirmala Ramanujam, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

Michael T. Carline  
Notary or Consular Officer

[SEAL]



Signature: \_\_\_\_\_  
Name: Anita Mahadevan-Jansen

Date: \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Anita Mahadevan-Jansen, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_  
Name: Michele Follen Mitchell

Date: \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Michele Follen Mitchell, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: Urs Utzinger

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Urs Utzinger, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

ARNOLD WHITE & DURKEE

750 Bering Drive  
Houston, Texas 77057-2198

One Franklin Square  
1301 K Street, N.W.  
Suite 350 East Tower  
Washington, DC 20005

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to the Board of Regents, the University of Texas System (the "Assignee"), having a place of business at 201 West 7th Street, Austin, Texas 78701, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. 09/421,965 which has been filed on October 20, 1999 and is entitled "METHOD AND APPARATUS FOR PROBABILISTICALLY CLASSIFYING TISSUE IN VITRO AND IN VIVO USING FLUORESCENCE SPECTROSCOPY", such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: Rebecca Richards-Kortum

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Rebecca Richards-Kortum, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: Nirmala Ramanujam

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Nirmala Ramanujam, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]



Signature: [Signature]  
Name: Anita Mahadevan-Jansen

Date: 3/6/00

STATE OF Tennessee )  
COUNTY OF Davidson ) ss.

BEFORE ME, the undersigned authority, on this 6 day of March, 1999/2000, personally appeared Anita Mahadevan-Jansen, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

[Signature]  
Notary or Consular Officer  
My Commission Expires 03/23/2002

[SEAL]

Signature: \_\_\_\_\_  
Name: Michele Follen Mitchell

Date: \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) ss.

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Michele Follen Mitchell, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: Urs Utzinger

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Urs Utzinger, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

ARNOLD WHITE & DURKEE

750 Bering Drive  
Houston, Texas 77057-2198

One Franklin Square  
1301 K Street, N.W.  
Suite 350 East Tower  
Washington, DC 20005

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to the Board of Regents, the University of Texas System (the "Assignee"), having a place of business at 201 West 7th Street, Austin, Texas 78701, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. 09/421,965 which has been filed on October 20, 1999 and is entitled "METHOD AND APPARATUS FOR PROBABILISTICALLY CLASSIFYING TISSUE IN VITRO AND IN VIVO USING FLUORESCENCE SPECTROSCOPY", such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

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WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Name: Rebecca Richards-Kortum

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Rebecca Richards-Kortum, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Name: Nirmala Ramanujam

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Nirmala Ramanujam, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: Anita Mahadevan-Jansen

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Anita Mahadevan-Jansen, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: *Michele Follen MD*  
Name: Michele Follen ~~Mitchell~~

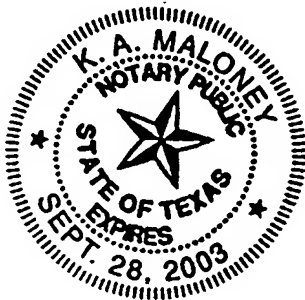
Date: *1/5/2000*

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF TEXAS )

BEFORE ME, the undersigned authority, on this 5<sup>TH</sup> day of JANUARY, ~~1999~~ 2000, personally appeared Michele Follen Mitchell, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

*K. A. Maloney*  
\_\_\_\_\_  
Notary or Consular Officer

[SEAL]



Signature: \_\_\_\_\_  
Name: Urs Utzinger

Date: \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Urs Utzinger, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

ARNOLD WHITE & DURKEE

750 Bering Drive  
Houston, Texas 77057-2198

One Franklin Square  
1301 K Street, N.W.  
Suite 350 East Tower  
Washington, DC 20005

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to the Board of Regents, the University of Texas System (the "Assignee"), having a place of business at 201 West 7th Street, Austin, Texas 78701, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. 09/421,965 which has been filed on October 20, 1999 and is entitled "**METHOD AND APPARATUS FOR PROBABILISTICALLY CLASSIFYING TISSUE IN VITRO AND IN VIVO USING FLUORESCENCE SPECTROSCOPY**", such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: Rebecca Richards-Kortum

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Rebecca Richards-Kortum, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: Nirmala Ramanujam

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Nirmala Ramanujam, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]



Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: Anita Mahadevan-Jansen

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Anita Mahadevan-Jansen, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: Michele Follen Mitchell

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

BEFORE ME, the undersigned authority, on this \_\_\_\_ day of \_\_\_\_\_, 1999/2000, personally appeared Michele Follen Mitchell, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same of her own free will for the purposes and consideration therein expressed.

\_\_\_\_\_  
Notary or Consular Officer

[SEAL]

Signature: \_\_\_\_\_

Name: Urs Utzinger

Date: \_\_\_\_\_

1/14/2000

STATE OF \_\_\_\_\_ )

) ss.

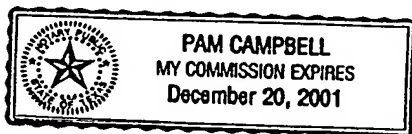
COUNTY OF TRAVIS )

BEFORE ME, the undersigned authority, on this 4th day of Jan, ~~1999~~/2000, personally appeared Urs Utzinger, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

Pam Campbell

Notary or Consular Officer

[SEAL]



ARNOLD WHITE & DURKEE

750 Bering Drive  
Houston, Texas 77057-2198

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